Rec'd PST/PTO 15 JUN 2005 TREAT 10/539335



PCT

REC'D 22 JAN 2004

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference		See Notification	on of Transmittal of International				
BUR920020012	FOR FURTHER ACTION	Preliminary E	xamination Report (Form PCT/IPEA/416)				
International application No.	International filing date (day/mon	th/year)	Priority date (day/month/year)				
PCT/US02/40868	19 December 2002 (19.12.2002)						
International Patent Classification (IPC)	or national classification and IPC						
IPC(7): H01L 21/00, 21/44, 21/84, 21/8238, 29/00, 29/94 and US Cl.: 438/151, 217, 231, 232, 283, 574, 576, 578, 582; 257/332, 401, 607, 611, 618, 620, 623							
Applicant							
INTERNATIONAL BUSINESS MACH	INES CORPORATION						
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.							
2. This REPORT consists of	2. This REPORT consists of a total of $\underline{\mathcal{D}}$ sheets, including this cover sheet.						
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These annexes consist of a total ofsheets.							
3. This report contains indications relating to the following items:							
I Basis of the rep	I Basis of the report						
II Priority	II Priority						
III Non-establishm	III Non-establishment of report with regard to novelty, inventive step and industrial applicability						
IV Lack of unity of	IV Lack of unity of invention						
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
VI Certain documents cited							
VII Certain defects in the international application							
VIII Certain observ							
Date of submission of the demand	Date	of completion	n of this report				
14 August 2003 (14.08.2003)		07 October 2003 (07.10.2003)					
Name and mailing address of the IPEA	/US Auti	norized officer	5 dian				
Mail Stop PCT, Atm: IPEA/US Commissioner for Patents	Ma	Authorized officer Matthew Smith Authorized officer Matthew Smith					
P.O. Box 1450 Alexandria, Virginia 22313-1450	Tele	phone No. 703	•				
Facsimile No. (703)305-3230 Form PCT/IPEA/409 (cover sheet)(July 1998)							



International a	ion No.
PCT/US02/40868	
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		of the report			
	With	regard to the elements of the international application:*			
		the international application as originally filed.			
	\boxtimes	the description:			
		pages 1-10 as originally filed			
		pages NONE , filed with the demand pages NONE , filed with the letter of			
	\triangle	the claims: pages 11-16 , as originally filed			
		pages 11-16 , as originally filed pages NONE , as amended (together with any statement) under Article 19			
		pages NONE , filed with the demand			
		pages NONE, filed with the letter of			
	\boxtimes	the drawings:			
		pages 1-12, as originally filed			
		pages NONE, filed with the demand pages NONE, filed with the letter of			
	_				
		the sequence listing part of the description:			
		pages NONE, as originally filed pages NONE, filed with the demand			
		pages NONE filed with the letter of			
2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is:					
the language of a translation furnished for the purposes of international search (under Rule23.1					
		the language of publication of the international application (under Rule 48.3(b)).			
		the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).			
3	 With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing: 				
		contained in the international application in printed form.			
		filed together with the international application in computer readable form.			
		furnished subsequently to this Authority in written form.			
		furnished subsequently to this Authority in computer readable form.			
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.				
		The statement that the information recorded in computer readable form is identical to the written sequence listin has been furnished.			
1	4. 🗵	The amendments have resulted in the cancellation of:			
		the description, pages <u>NONE</u>			
		the claims, Nos. NONE			
		the drawings, sheets/fig NONE			
		This report has been established as if (some of) the amendments had not been made, since they have been considered to go			
	5	beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**			
	thic ro	beyond the disclosure as filed, as indicated in the estyppendiffice in response to an invitation under Article 14 are referred to it lacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to it port as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). The properties are properties of the report of t			



ation No. International PCT/US02/40808

V. Reasoned statement under Rule 66.2(a) citations and explanations supporting st	Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
. STATEMENT						
Novelty (N)	Claims	1-24	YES			
	Claims	NONE	NO			
Inventive Step (IS)	Claims	1-24	YES			
michael Sup (La)	Claims	NONE	NO			
Industrial Applicability (IA)	Claims	1-24	YES			
manning (11)	Claims		NO			
Industrial Applicability (IA)						

2. CITATIONS AND EXPLANATIONS

Claims 1-24 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest an integrated circuit comprising a semiconductor layer that forms the source, drain and channel of a first gate region and the gate structure of a second gate region.

Form PCT/IPEA/409 (Box V) (July 1998)